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1. DTRA133-001: Metal-Oxides as Radiation-Hard Microelectronic Channel Materials

   Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

   OBJECTIVE: Design and develop radiation hardened electronic device prototypes using metal-oxide channel materials to test the feasibility and scalability of these materials in technology. DESCRIPTION: The Defense Threat Reduction Agency (DTRA) Basic Research Program supports research on the basic science of radiation effects in microelectronics and radiation hard microelectronic materials and d ...

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2. DTRA133-002: Indirect Detection of Radiological and Nuclear Threats by Non-atmospheric Effect Techniques

   Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

   OBJECTIVE: Conventional means of detecting radiological and nuclear threats (e.g., scintillator, semiconductor, ionization detectors) are limited by the range of the emitted particle (i.e., gamma, neutron, alpha, beta) between the source and detector. As an alternative to this constraint, we seek proposals to develop new modalities or improve upon previously investigated concepts for locating o ...

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3. DTRA133-003: Portable Neutron Detector with Spectroscopic and Directional Sensitivity

   Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

   OBJECTIVE: DTRA seeks a 3He-free portable neutron detector with spectroscopic capability and directional sensitivity, derived from measurement of count rates within a highly granular array of thermal neutron detectors dispersed within a moderator. The device will be able to detect, locate and characterize threat neutron sources in the field. DESCRIPTION: Neutron spectroscopy can offer a sign ...

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